

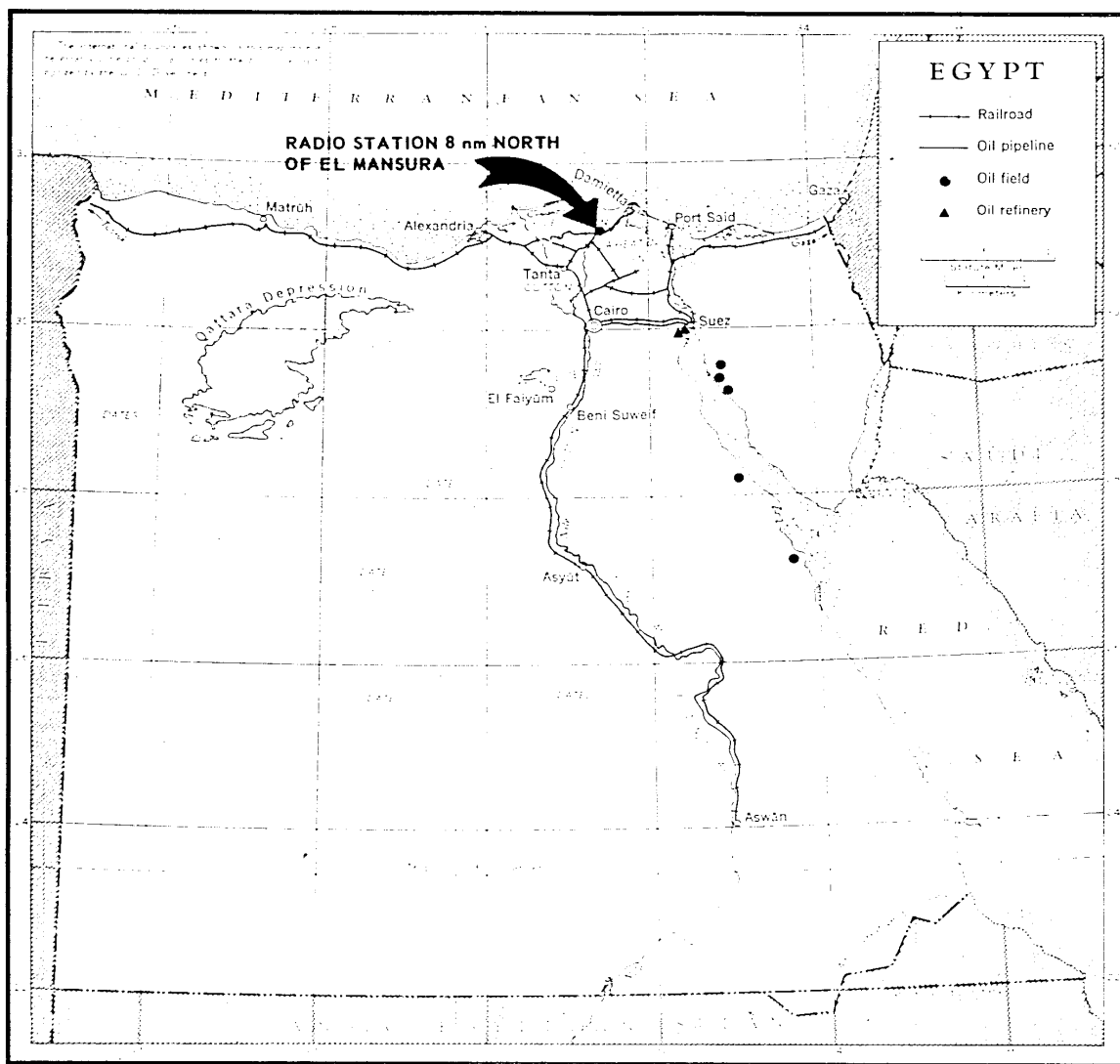
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## Declass Review NIMA/DoD



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PIC/M-1/59

# HIGH-POWERED RADIO STATION NEAR EL MANSURA, EGYPT

A high-powered radio broadcasting station probably operating in the medium-frequency range is located at 31°11'N/31°26'E, eight nautical miles north of El Mansura, Egypt on the northern edge of the village of Busat. The station occupies an irregularly-shaped area of 160 acres of irrigated land with over-all dimensions of 3,000 by 2,700 feet.

25X1D

As of [REDACTED] the station consisted of 21 buildings, in the final stages of construction or completed, two guyed vertical radiators, one self-supporting lattice tower, a transformer yard, and a cooling pond under construction. The area is probably fenced although it is not possible to identify a fence around the entire area. An overhead power line enters from the northeast and leads to the transformer yard.

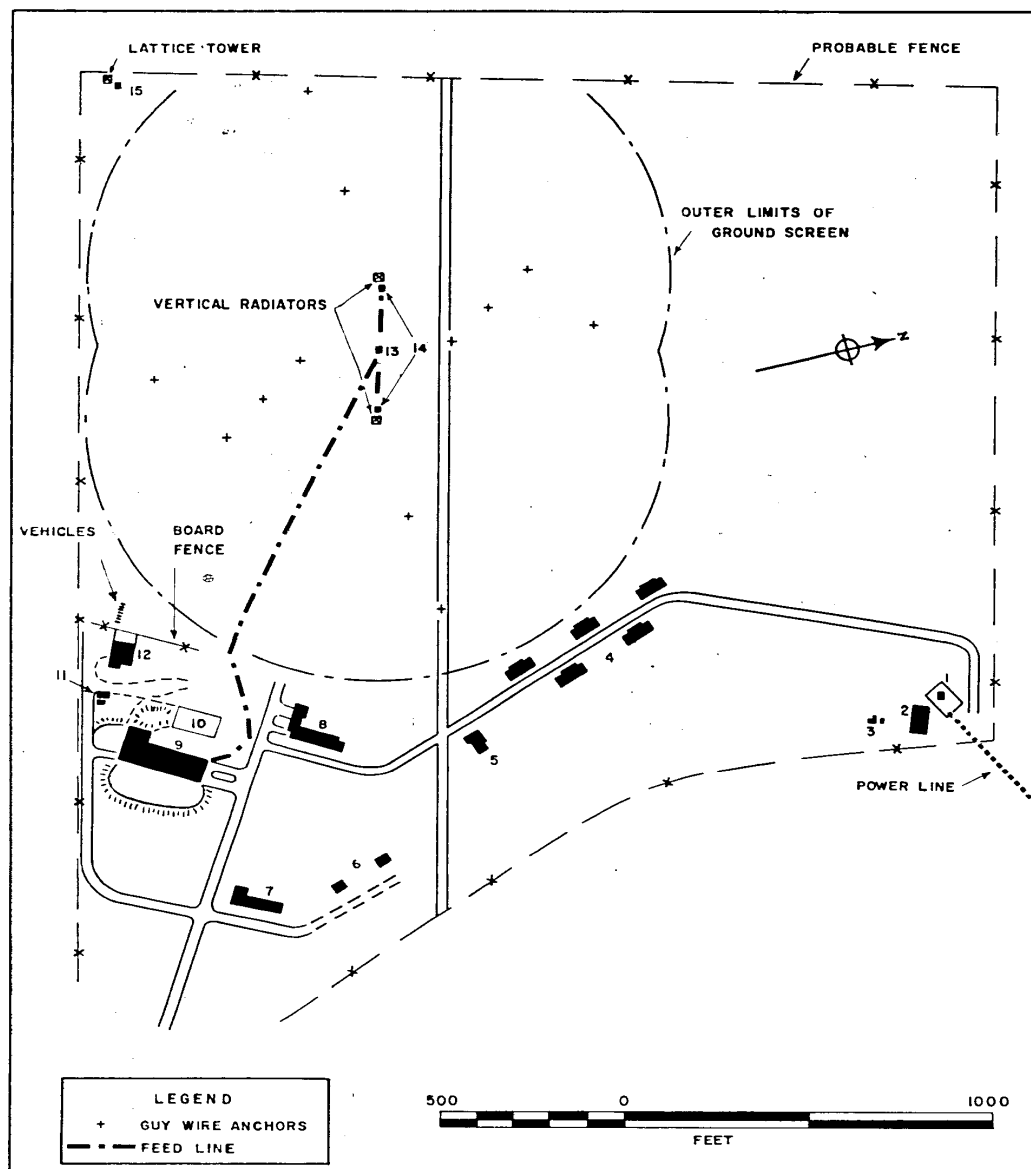
The following is a tabulation of the various facilities within the installation that can be identified on aerial photography. Numbers used to designate structures in the tabulation correspond to numbers used to identify the same items on the accompanying graphic.

## A. Structures

1. Transformer yard containing one irregularly-shaped building with over-all dimensions of [REDACTED] 25X1D
2. Flat-roofed building, [REDACTED] 25X1D
3. Two flat-roofed buildings. One is L-shaped and has over-all dimensions of [REDACTED] with each wing 10 feet wide. The other is 10 feet square. 25X1D
4. Five flat-roofed buildings, each [REDACTED] 25X1D
5. Irregularly-shaped building, two-story. Over-all dimensions of the ground floor are 70 by 50 feet and of the second floor [REDACTED] 25X1D
6. Two flat-roofed, two-story buildings, each [REDACTED] 25X1D

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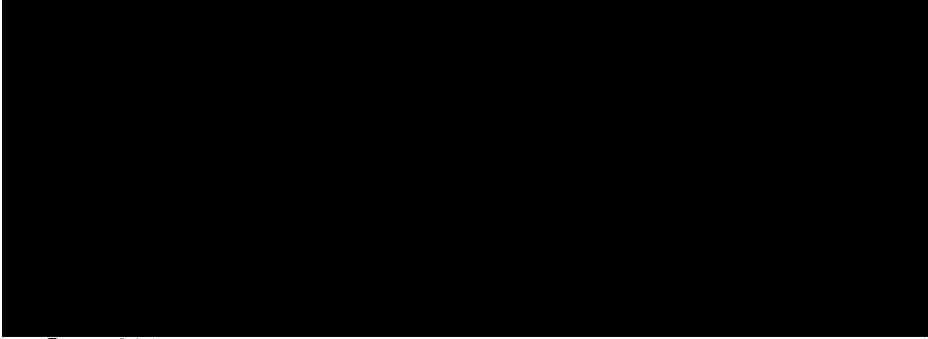
- 25X1D 7. Flat-roofed, L-shaped building, two-story, with over-all dimensions of 150 by 90 feet. The width of the longer wing is [REDACTED] and that of the shorter wing [REDACTED] 25X1D
- 25X1D 8. Flat-roofed, L-shaped building, two-story. One wing measures [REDACTED]
9. Transmitter building. One-story, flat-roofed, L-shaped building with over-all dimensions of 250 by 115 feet. Each wing is 70 feet wide. There are two probable ventilators on the roof. Earth embankments have been built against the east and south sides of the building. 25X1D
10. Cooling pond 145 by [REDACTED] excavation leading from one end of the cooling pond to the transmitter building. 25X1D
11. Two flat-roofed buildings, [REDACTED]
12. Curved-roof building 70 feet square, single-story, with projecting shed 40 by 15 feet.
13. Coupling/tuning house 25 feet square.
14. Two coupling/tuning houses, each 25 feet square.
15. Flat-roofed building [REDACTED] 25X1D
- B. Antennas
  1. Two guyed broadcast vertical radiators, approximately 810 feet high and located 430 feet apart. Two collateral reports 1/ 2/, give the height of these radiators as 840 feet. The  
 25X1D [REDACTED]  
 25X1D line projected between the two vertical radiators would have an azimuth orientation of [REDACTED] There are three sets of guy-wire anchors supporting each radiator. Each set consists of two anchors placed at distances of 340 feet and 640 feet from the radiator base. An overhead feed line leads from the probable transmitter building (Item 9) to the coupling/



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tuning house (Item 13) located in line with and midway between the two vertical radiators . From this building the overhead feed line divides and leads to two coupling/tuning houses (Item 14), one of which is at the base of each vertical radiator.

25X1D

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2. One 210-foot-high self-supporting lattice tower is located in the southwest corner of the radio station. A small building (Item 15) adjacent to the base of this tower may serve as a coupling/tuning house. No feed line can be seen leading to this building or to the tower. However, because of the state of construction activity the lack of an identifiable feed line does not preclude future use of the tower as an antenna.

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REQUIREMENT: Prepared in answer to RR/E/R137/58 requesting description of powerful radio broadcasting station under construction in the vicinity of El Mansura , Egypt.

25X1D

PHOTO DATA:



MAP DATA:

Army Map Service, Series P671, Sheet 92, Scale 1:100,000 (U)

REFERENCES:

1. CIA 00-B-3,080,391, 21 May 57 (C).
2. ONI USNA CAIRO 51-57, 16 Apr 57 (U).

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